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(71) Applicant (*for all designated States except US*): **A. SCHULMAN INC.** [US/US]; 1183 Home Avenue, Akron, OH 44310 (US).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **SMITH, Dennis, C.** [US/US]; 2395 Killian Road, Akron, OH 44312 (US). **SCAGLIONE, Heather** [US/US]; 76 Crystal Court, Brunswick, OH 44212 (US).

(74) Agent: **SAGE, G., Patrick**; The Firm of Hueschen and Sage, 500 Columbia Plaza, 350 East Michigan Avenue, Kalamazoo, MI 49007 (US).

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24 June 2004

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: IONOMER MODIFIED POLYPROPYLENE COMPOUND FOR SUPERIOR SCRATCH PERFORMANCE, LOW BLUSHING, AND MOLDED IN COLOR WITH CONTROLLABLE GLOSS

(57) Abstract: The invention pertains to a polyolefin blend, which imparts superior physical properties, which may include enhanced scratch resistance, toughness and low temperature performance, and higher flexural modulus and rigidity. The blends in this invention impart improved performance and processability over existing products.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/29295

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C08F 8/00; C08L 9/00, 23/04, 25/02, 33/02, 33/04, 35/00, 35/02, 43/00

US CL : 525/191, 201, 207, 222, 232, 240, 241

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 525/191, 201, 207, 222, 232, 240, 241

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y,P	US 6,569,947 B1 (FEINBERG) 27 May 2003 (27.05.2003), see the Abstract, column 1 (lines 22-44), column 2 (lines 23-67), column 3 (lines 1-18 and 42-55).	1-3, 6, 15, 18, 20
Y	US 5,883,188 A (HWANG et al) 16 March 1999 (16.03.1999), see column 2 (lines 19-55) and the claims.	1-3, 15, 18, 20, 21
A	US 4,945,005 A (ALECKNER, JR. et al) 31 July 1990 (31.07.1990), see entire document.	1-23

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T"

later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X"

document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y"

document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&"

document member of the same patent family

Date of the actual completion of the international search

08 February 2004 (08.02.2004)

Date of mailing of the international search report

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Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Facsimile No. (703) 305-3230

Authorized officer

Nathan M. Nutter

Telephone No. 703-308-0661

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/29295

Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)

This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claim Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☒ Claim Nos.: 8,10,12-14,16,17,21 and 23
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
Claims 8, 10, 12-14, 16, 17 and 21 are not further limiting and recite features having no antecedent bases in claim 1.
Claim 23 recites features that are characteristics of the final product, and, as such, not searchable.
3. ☐ Claim Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

☐
☐

The additional search fees were accompanied by the applicant's protest.

No protest accompanied the payment of additional search fees.